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NOTICE OF ALLOWANCE AND FEE(S) DUE

41835 7590 06/24/2009 K&L GATES LLP HENRY W. OLIVER BUILDING EXAMINER KRISHNAN, GANAPATHY

PAPER NUMBER

ART UNIT 1623 DATE MAILED: 06/24/2009

HENRY W. OLIVER BUILDING 535 SMITHFIELD STREET PITTSBURGH, PA 15222

APPEZCATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONTERMATION NO.

10782_215 02/19/2004 James A. McClain 030900 5338

TITLE OF INVENTION: METHOD OF PRODUCTION GREISISTANT STARCH

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEES) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 09/24/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notifical	form should be used to correspondence including d below or directed off tions.	or transmitt ig the Paten ierwise in B	ting the ISSU it, advance of Block 1, by (a	JE FEE and PUBLICAT rders and notification of a) specifying a new corre	TON FEE (if requiremaintenance fees very spondence address	ired). I vill be and/or	Blocks 1 through 5 st mailed to the current (b) indicating a sepa	nould be completed where correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDE	range of address)	Fee par	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
535 SMITHFIEI	IVER BUILDING LD STREET	/2009		I b	Cer	tificate	of Mailing or Trans	mission g deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
PITTSBURGH,	PA 15222							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	LICATION NO. FILING DATE		FIRST NAMED INVE		R AT		RNEY DOCKET NO.	CONFIRMATION NO.
10/782,215	02/19/2004			James A. McClain	030900			5338
TITLE OF INVENTION								
APPLN, TYPE	SMALL ENTITY	ISSUE I	FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		510	\$300	\$0		\$1810	09/24/2009
EXAMINER		ART	UNIT	CLASS-SUBCLASS	ss			
KRISHNAN, GANAPATHY		I	1623 536-102000		_			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA	nge of Corre "Indication ed. Use of a	form Customer	For printing on the (I) the names of up to or agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent attilisted, no name will be THE PATENT (print or ty data will appear on the IT a substitute for filing an	o 3 registered pater ively, de firm (having as a agent) and the nam orneys or agents. If e printed.	memb es of u no nan	er a 2 p to ie is 3	ocument has been filed for
(A) NAME OF ASSIC		categories (will not be pr	(B) RESIDENCE: (CIT			ŕ	oup entity Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies				o. Payment of Fee(s): (Ple A check is enclosed. Payment by credit ca The Director is hereb overpayment, to Dep	rd. Form PTO-2038 v authorized to cha	is atta	ched. required fee(s), any de	
	s SMALL ENTITY state	s. See 37 Cl		☐ b. Applicant is no lor				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will n tes Patent ar	ot be accepte nd Trademark	d from anyone other than Office.	the applicant; a reg	stered	attorney or agent; or th	e assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration N	lo		
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	FR 1.311. T U.S.C. 122 USPTO. Tr den, should NOT SEN	The information and 37 CFR ime will vary be sent to the D FEES OR	on is required to obtain or 1.14. This collection is es depending upon the indi e Chief Information Offic COMPLETED FORMS T	retain a benefit by stimated to take 12 vidual case. Any co er, U.S. Patent and O THIS ADDRES:	he pub minuter omment Trader S. SEN	tic which is to file (and to complete, including s on the amount of tire ark Office, U.S. Deptor of the complete of the comple	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/782,215	02/19/2004		James A. McClain	030900	5338
41835	7590	06/24/2009		EXAM	UNER
K&L GATES	LLP		KRISHNAN, GANAPATHY		
HENRY W. OL	IVER BU	ILDING	ART UNIT	PAPER NUMBER	
535 SMITHFIE PITTSBURGH.			1623		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)				
10/782,215	MCCLAIN, JAMES A.				
Examiner	Art Unit				
Ganapathy Krishnan	1623				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 3/11/2009.
- The allowed claim(s) is/are 1,3,4,6,7,9,10,13-16 and 18-23.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7/10/2006
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other _____.

/Shaojia Anna Jiang/

Supervisory Patent Examiner, Art Unit 1623

Art Unit: 1623

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The closest prior art of record, Ohkuma (US 5,358,729) teaches treatment of starch with 22.5 liters of a 1% hydrochloric acid and then heating the acid treated starch to a temperature of 130°C, 140°C, 150°C, 160°C and 170°C (col. 14, Experimental Example 1). The whiteness level obtained for these temperatures is shown in Table 13 (col. 23). Even though Ohkuma does not specify the pH of the starch, according to the description of Ohkuma in Experimental Example 1 the pH of the acidified starch is -0.86, which is much lower compared to the pH range instantly claimed. For such a highly acidic starch Ohkuma shows a whiteness level of 66 only for a temperature of 130°C and the whiteness level goes down on increasing the temperature. The secondary reference, Klinger (US 6,844,022) teaches heating of acidified starch but states that heating above 120°C is to be avoided (col. 2). Even though white to vellowish white product, which is a gel, is mentioned in Tables 2A-C it is after neutralization with base to a pH of 6.0-6.5 and after heating to a maximum temperature of 105°C. There is no whiteness level taught either. Both references do not teach or suggest a correlation between whiteness level, pH and temperature. The instant method of producing starch with a whiteness level of at least 65 being maintained by heating starch between 140°C-180°C after acidifying it to a pH range of between 1-4 is neither taught or rendered obvious by the prior art.

Any comments considered necessary by the applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Art Unit: 1623

Any inquiry concerning this communication should be directed to Shaojia A. Jiang, Supervisory Patent Examiner in Art Unit 1623 at 571-272-0627.

/Shaojia Anna Jiang/

Supervisory Patent Examiner, Art Unit 1623